

entry AB030946

①

LOCUS AB030946 1985 bp mRNA INV 03-FEB-2000
 DEFINITION *Caenorhabditis elegans* mRNA for high-affinity choline transporter CHO-1, complete cds.
 ACCESSION AB030946
 VERSION AB030946.1 GI:6863031
 KEYWORDS cho-1; high-affinity choline transporter CHO-1; choline transporter.
 SOURCE *Caenorhabditis elegans* (strain:N2) cDNA to mRNA, clone:cho-1.
 ORGANISM *Caenorhabditis elegans*
 Eukaryota; Metazoa; Nematoda; Secernentea; Rhabditia; Rhabditida; Rhabditina; Rhabditoidea; Rhabditidae; Peloderinae; *Caenorhabditis*.
 REFERENCE 1 (sites)
 AUTHORS Okuda, T., Haga, T., Kanai, Y., Endou, H., Ishihara, T. and Katsura, I.
 TITLE Identification and characterization of the high-affinity choline transporter
 JOURNAL Nat. Neurosci. 3 (2), 120-125 (2000)
 MEDLINE 20116099
 REFERENCE 2 (bases 1 to 1985)
 AUTHORS Okuda, T.
 TITLE Direct Submission
 JOURNAL Submitted (09-AUG-1999) to the DDBJ/EMBL/GenBank databases. Takashi Okuda, University of Tokyo, Faculty of Medicine, Department of Neurochemistry; Hongo 7-3-1, Bunkyo-ku 113-0033, Japan (E-mail:okuda@m.u-tokyo.ac.jp, Tel:+81-3-5841-3560, Fax:+81-3-3814-8154)
 FEATURES
 source Location/Qualifiers
 1..1985
 /organism="Caenorhabditis elegans"
 /strain="N2"
 /db_xref="taxon:6239"
 /chromosome="IV"
 /clone="cho-1"
 gene 9..1739
 /gene="cho-1"
 CDS 9..1739
 /gene="cho-1"
 /codon_start=1
 /product="high-affinity choline transporter CHO-1"
 /protein_id="BAA90483.1"
 /db_xref="GI:6863032"
 /translation="MADLLGIVAIVFFYVLILVVGIWAGRKSKESEAGAATEE
 VMLAGRNIGTLVGIFTMTATWVGAYINGTAEALYNGLLGCQAPVGYAISLVMGGLL
 FAKKMREEGYITMLDPFQHKYQGRIGGLMYVPALLGETFWTAAISALGATLSVILGI
 DMNASVTLSACIAVFYFTTGGYYAVAYTDVVQLFCIFVGLWVCVPAAMVHDGAKDISR
 NAGDWIGEIGGFKETSLWIDCMLLLVFGGIPWQVYFORVLSKTAHGAQTLSEFVAGVG
 CILMAIPPALIGAIA RNTDWRMTDYSPPWNNGTKVESIPDKRNMVPLVFQYLTPRWY
 AFIGLGAVSAAMVSSADSSVLSAASMFAMNIWKLIRPHASEKEVIVMRIAICVGI
 MATIMALTIQSIYGLWYLCADLVYVILFPQLLCVYMPRSNTYGSAGYAVGLVRLI
 GGEPLVSLPAFFHYPMYTDGVQYFPFRTTAMLSMATIYIVSIQSEKLFKSGRLSPW
 DVMGCVVNIPIDHVPLPSDVSFAVSSSETLNMKAPNGTPAPVHPNQPSDENTLLHPYS
 DQSYYSTNSN"
 BASE COUNT 517 a 412 c 453 g 603 t
 ORIGIN
 1 tgacaaatat gccgactta ttgggtatcg tggccattgt gttcttctac gtgtcattc
 61 ttgtcgttgg aatatggcgg gtagaaaaat cgaaaagttc aaaagagctt gaatcagaag
 121 ccggcgcggc gacggaagag gtgatgttag ctgggagaaa catcggaact cttgtcggaa
 181 ttttcacaat gactgccacg tgggttggcg gtgcttatat caatggaacc gccgaggctc
 241 tgtataatgg aggtctcctt ggatgtcagg ctccagttgg atatgcaatt tcccttggtta
 301 tgggaggact acttttcgca aagaaaatgc gagaagaagg atatattaca atgctcgatc
 361 cttttcagca caaatatggc caacgaatcg gtggcttgat gtatgttcca gcacttcttg
 421 gtgaaacatt ctggacagca gccattcttt cggcacttgg tgcaacactg tcggtaatc
 481 ttggaatcga catgaatgca tcagtgaccc tgcggcctg tattgccgta ttctacacat
 541 tcaccgggtg atactatgca gtcgcgtaca ctgacgtcgt tcaactattt tgcattttcg
 601 tcggtttgtg ggtttgcgtg ccggcggcta tggatgcata tggatgcgaag gatatttcca
 661 ggaatgcagg cgactggatt ggagagattg gaggattcaa agaaacatct ccttgattg
 721 attgcatgct tctccttgct ttggaggaa ttccatggca agtgtacttc caaagagttc
 781 tctcctcaaa aactgctcat ggagcacaga cgttgtcgtt tgtggcgggc gtcggatgca
 841 ttctcatggc gattccacca gcgttgatcg gtgcaattgc caggaacaca gactggagaa
 901 tgactgatta ttcccatgg aacaatggaa ctaaggtcga atcgattcca ccggataaga

①

P. X

```
961 gaaacatggt ggtccggt gtattccagt atcttacgcc aagatgggtc gctttattg
1021 gactcggcgc agtgtcggct gctgtaatgt catctgcaga ttcattctgta ctatcagcag
1081 catcaatggt tgctcacaac atctggaagc tcacaattcg ccttcacgcg tctgaaaaag
1141 aagtgataat tgtgatgaga atagccatca tctgtgttgg tatcatggca accatcatgg
1201 cacttaccat tcaatccatc tatgggcttt ggtatctttg tgcagatttg gtctacgtca
1261 tactcttccc tcaactatta tgtgttgtat atatgccacg tagcaatacg tatggctcat
1321 tggctgggta tgcagtcggt cttgtgtctc gtttgatttg aggcgagcca cttgtatcgc
1381 tgccagcggt cttccattat ccaatgtata cggatggggt acagtatttc ccattcagga
1441 caactgctat gttatcttca atggctacta tctacattgt atcaatacaa tcggagaagc
1501 tgttcaaadc gggacgtttg tctccggagt gggacgtaat gggttgtgta gtgaatattc
1561 cgatagatca tgtacccttt ccgtcagatg tatcgtttgc tgttagtagt gagaccttga
1621 atatgaaggc tccaaacgga acaccggctc cagtacatcc gaaccaacag ccgtctgatg
1681 aaaatacatt attacatcca tattcggacc aaagtattta ttccacaaat agcaattaaa
1741 agagacgaac ttgttccacg tgttcactta atttctccc aaattttttt ttgtattttt
1801 tttagttttc gttaactttt ttctcacttt ctcaaatttc agatctctat taatagacct
1861 atccggtgga tacactttag tttttattta ttttctaaa atttgaaaga aaaaaatttg
1921 atgaattttg acatgttcag aaattccaat aaaaacgtga ccaattaatt aaaaaaaaaa
1981 aaaaa
```

//

